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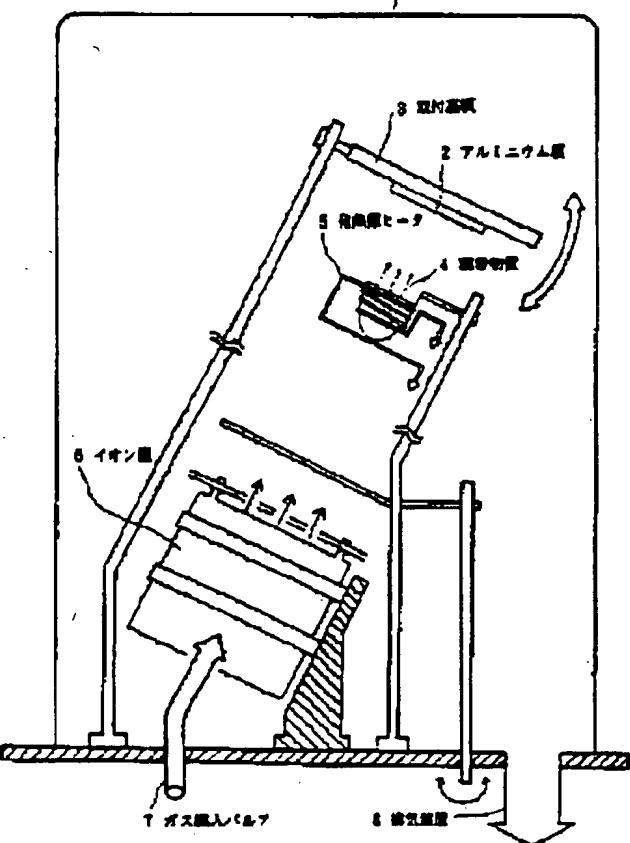
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TITLE : MANUFACTURE OF SOLID ELECTROLYTIC CAPACITOR



ABSTRACT : PURPOSE: To provide a method of manufacturing a solid electrolytic capacitor, which forms a solid electrolyte consisting of an organic material uniformly and in a high density in small holes in a valve action metal plate formed by an etching process, increases the electrostatic capacitance of the capacitor and is capable of improving the frequency characteristics and temperature characteristics of the capacitor.

CONSTITUTION: An aluminium plate 2 mounted on a mounting board 3 arranged in a vacuum container 1 has microscopic small holes formed therein through an etching process and an oxide film formed on its surface including the small holes through a chemical formation process after the formation of the small holes, and an ion source 6 are counterposed and a deposited substance 4 consisting of a TCNQ complex is put directly under the plate 2. The arrangement position of the source 6 is provided in such a way that the center of the substrate 3 and the center of the source 6 coincide with each other on the same directrix passing through the centers of the board 3 and the substance 4, an ion beam which is irradiated with from the source 6 to evaporate thereby forming a deposited film, which is used as a solid electrolyte, on the surface of the oxide film on the surface of the plate 2.

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